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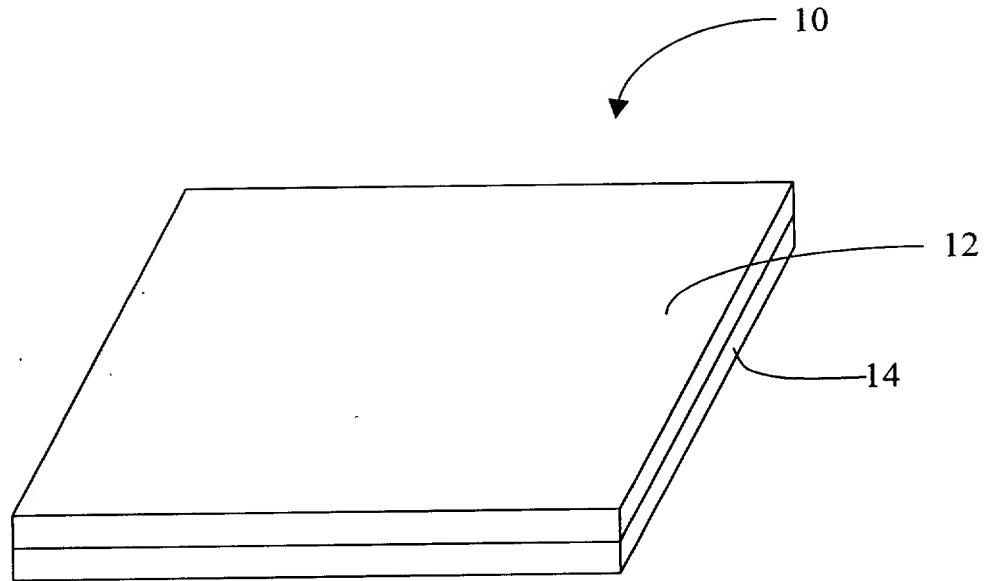


FIG. 1

FIG. 2

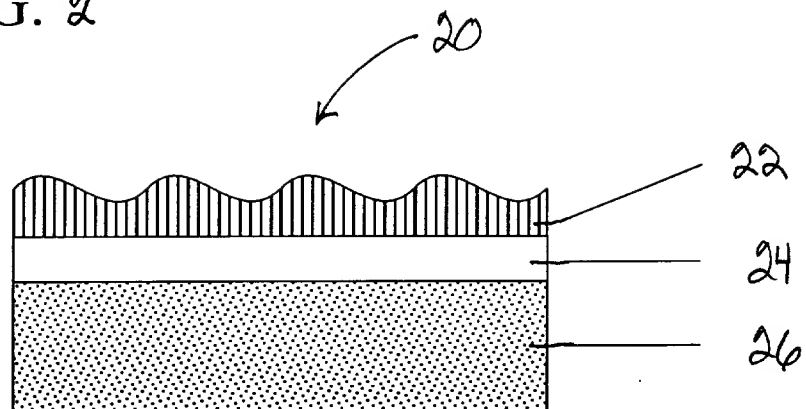
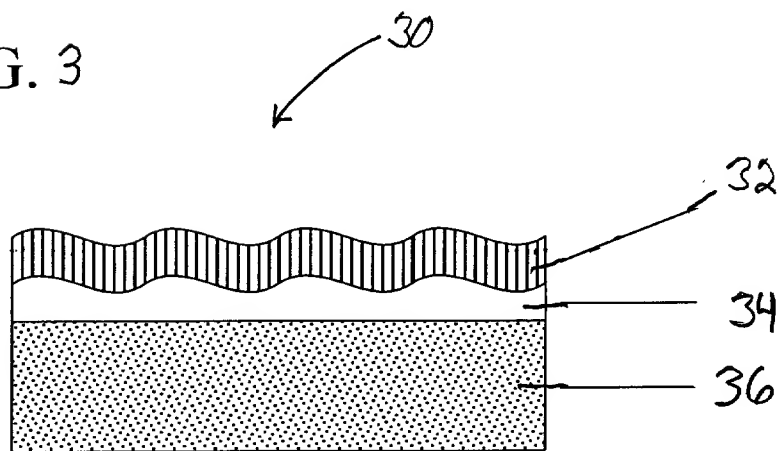


FIG. 3



40 42 44 46 48

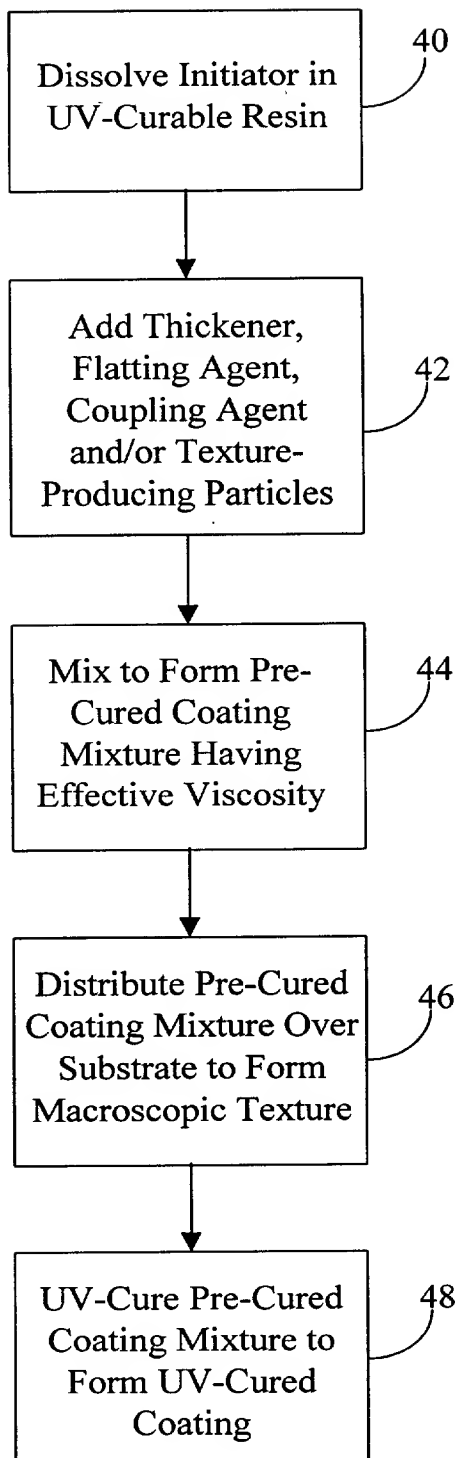


FIG. 4

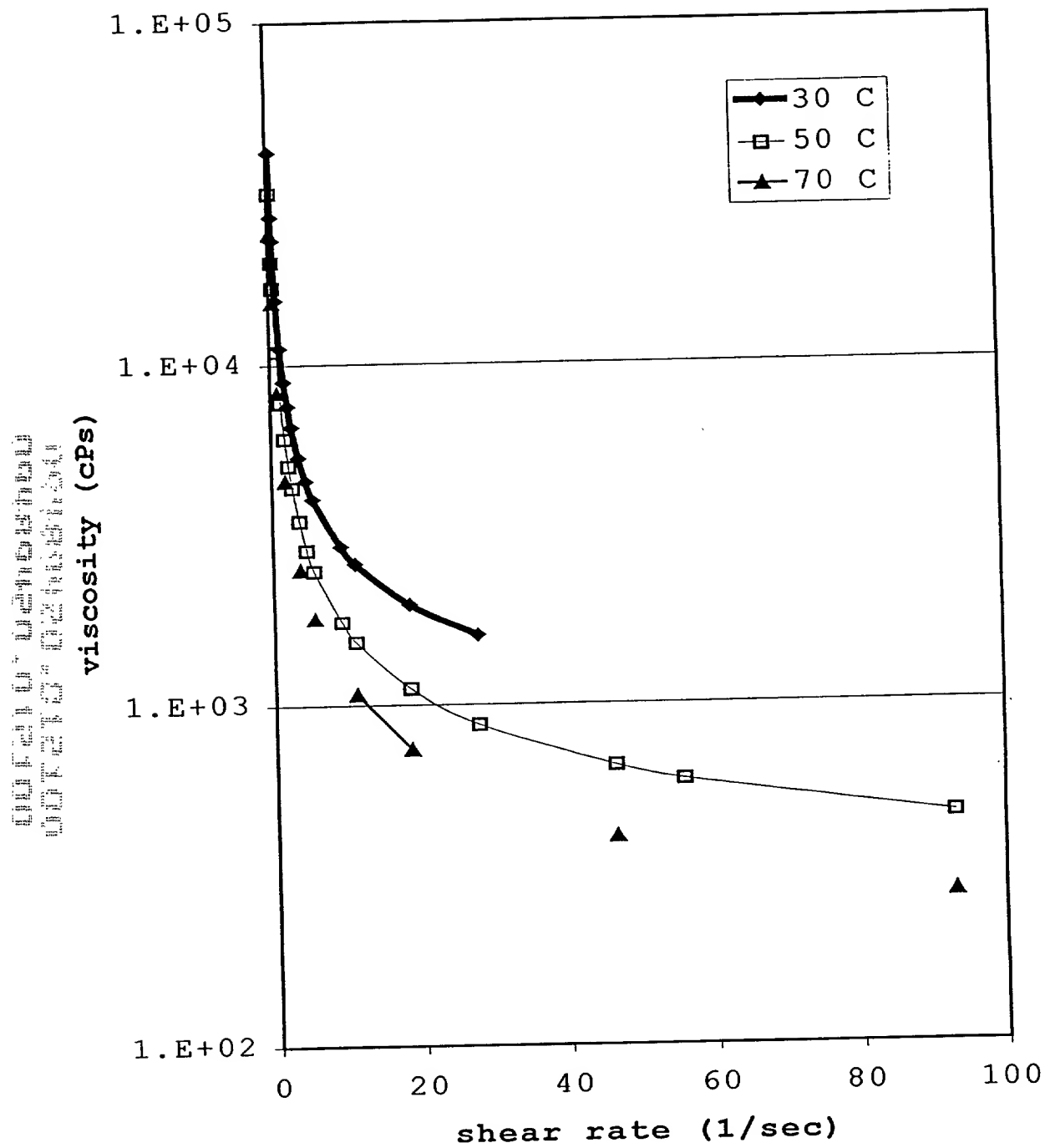


FIG. 5

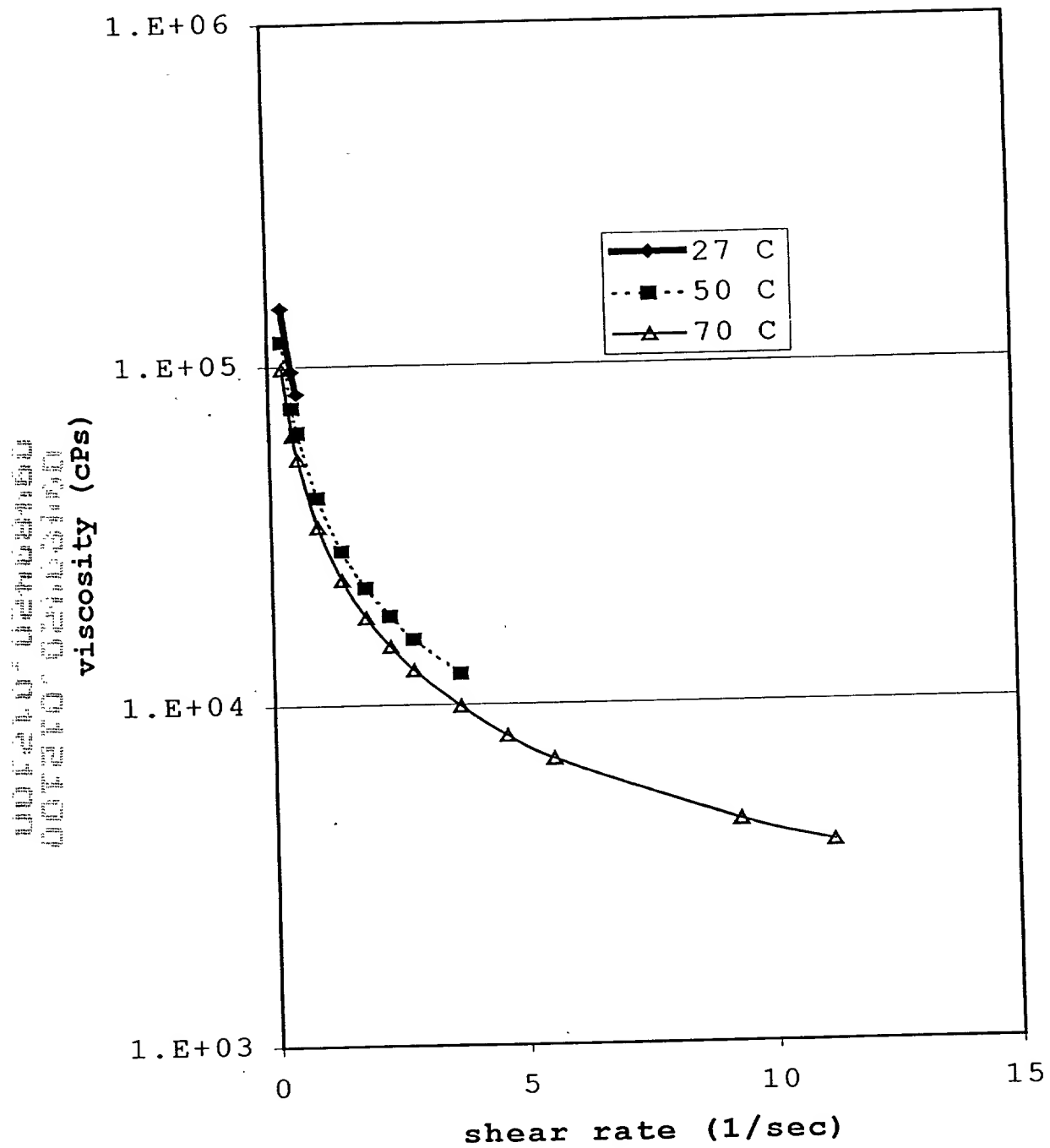


FIG. 6

Effect of Aging time on Viscosity of
40 wt.% Nano-Alumina Coatings

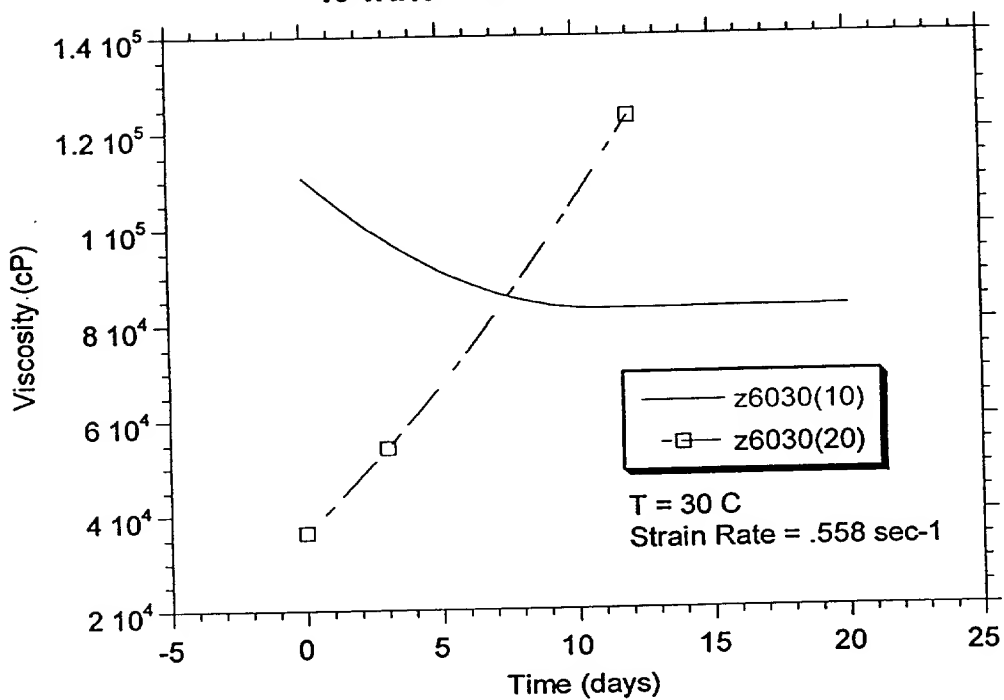
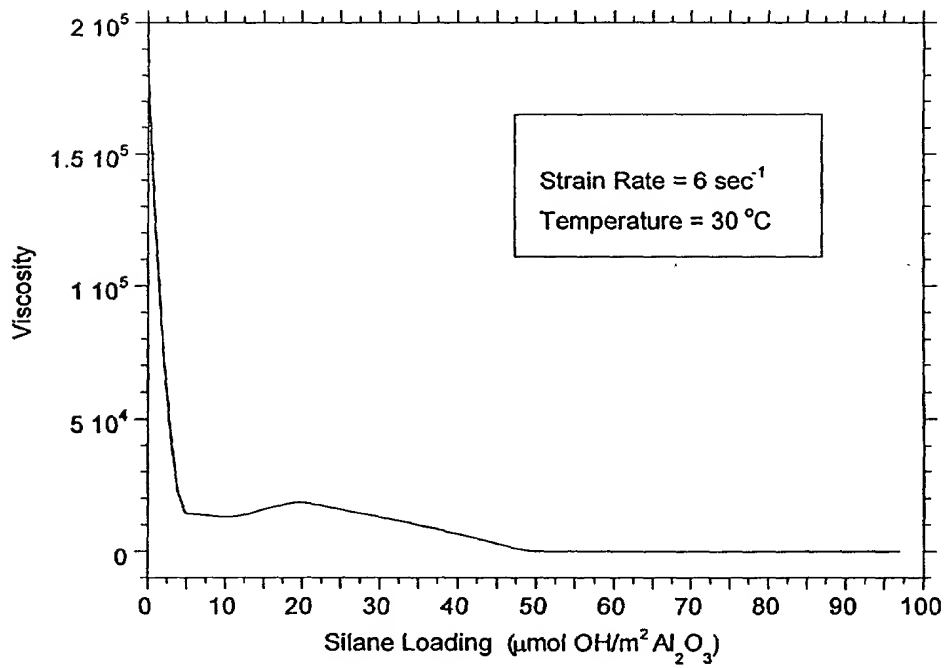


FIG. 7

Effect of Z6030 Prehydrolyzed silane loading on the Apparent Viscosity of 40 wt.% nano-Alumina Coatings



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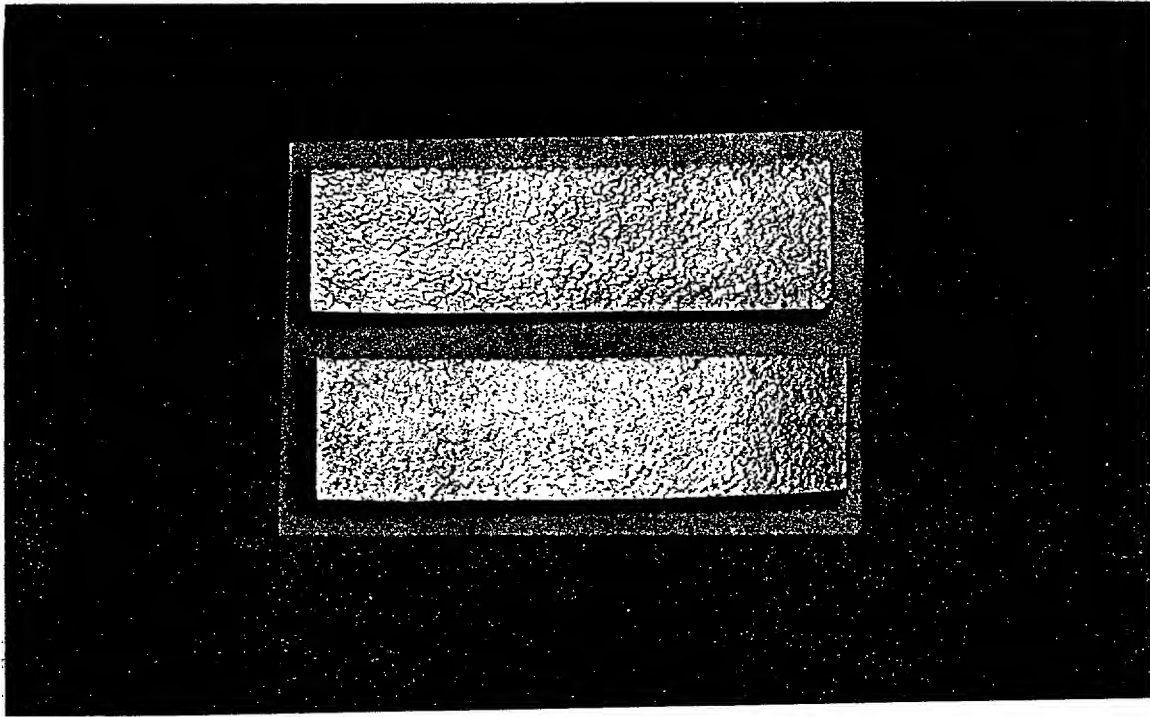


FIG. 9

FIG. 10

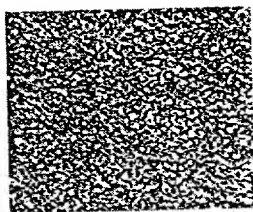


FIG. 11

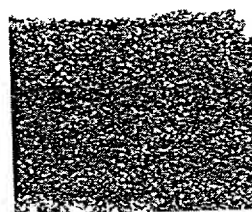


FIG. 12

FIG. 13

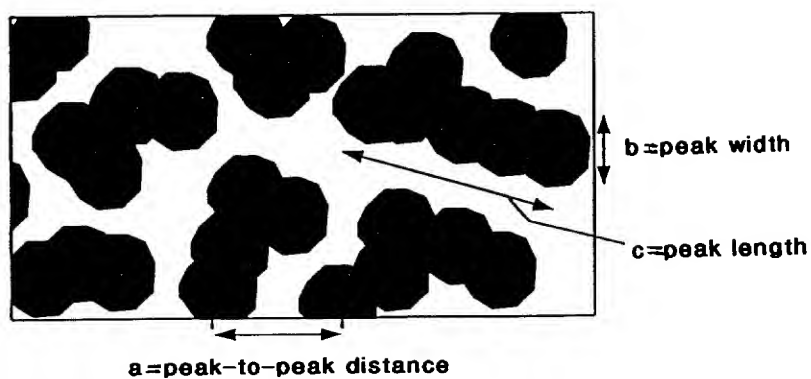


FIG. 14

FIG. 15

FIG. 16

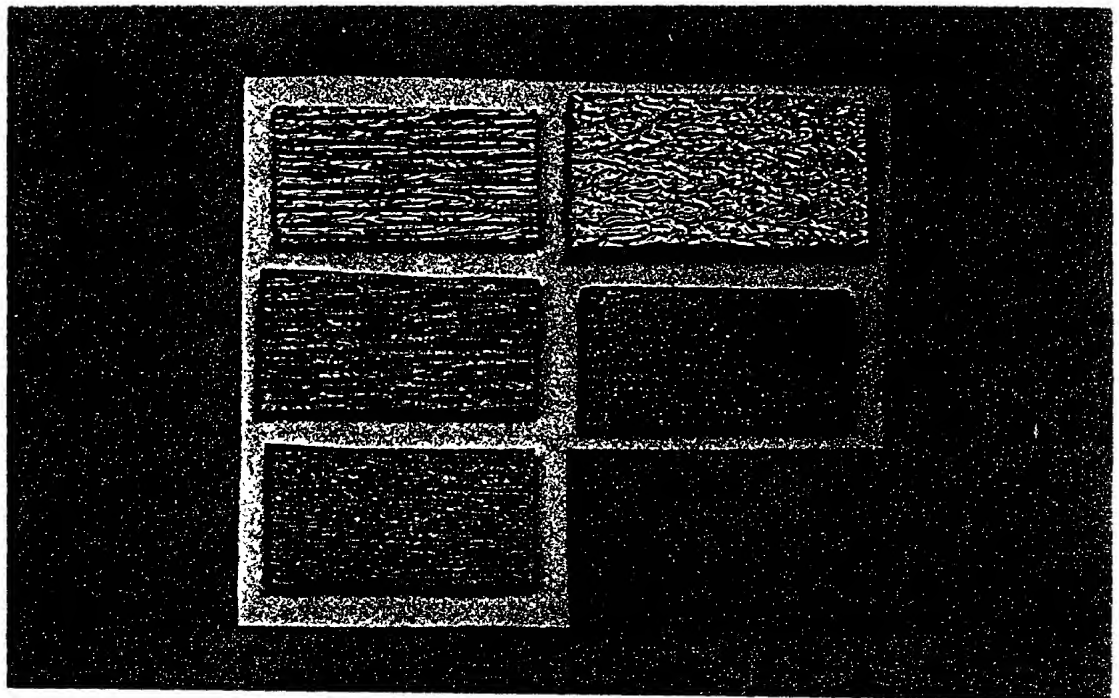
FIG.
17

FIG. 18



FIG. 19

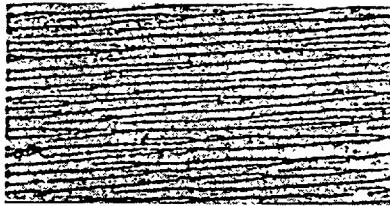


FIG. 20



FIG. 21



FIG. 22

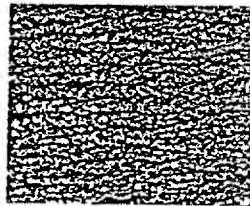


FIG. 23

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FIG. 24

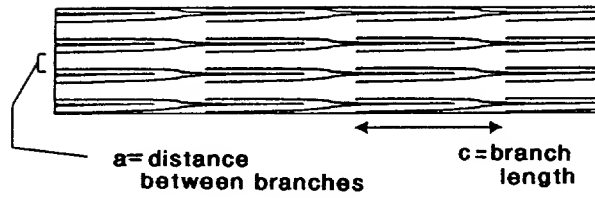


FIG. 25

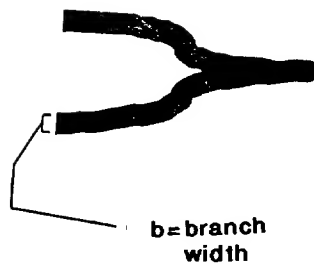
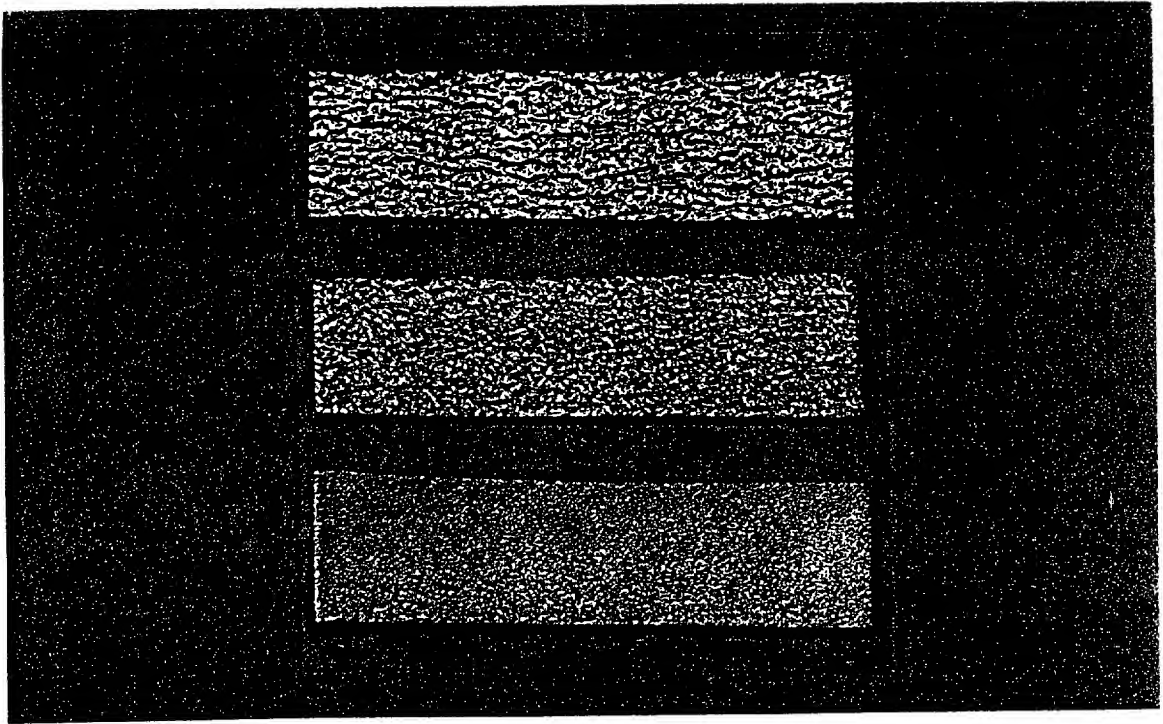


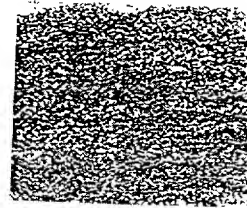
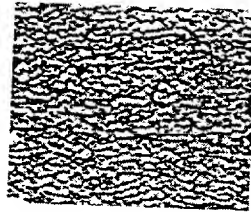
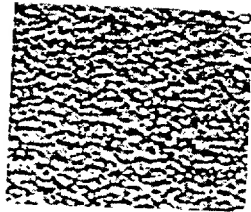
FIG. 26

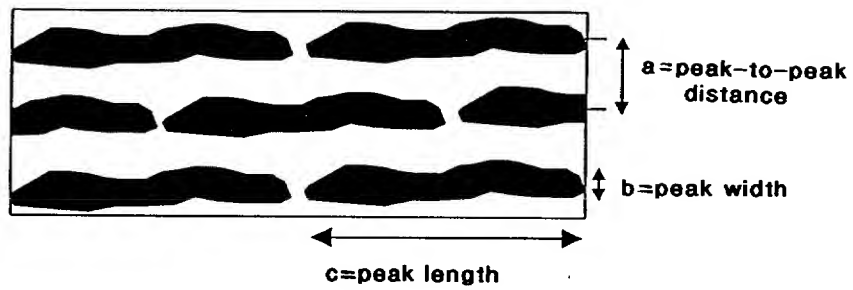
FIG. 27

FIG. 28



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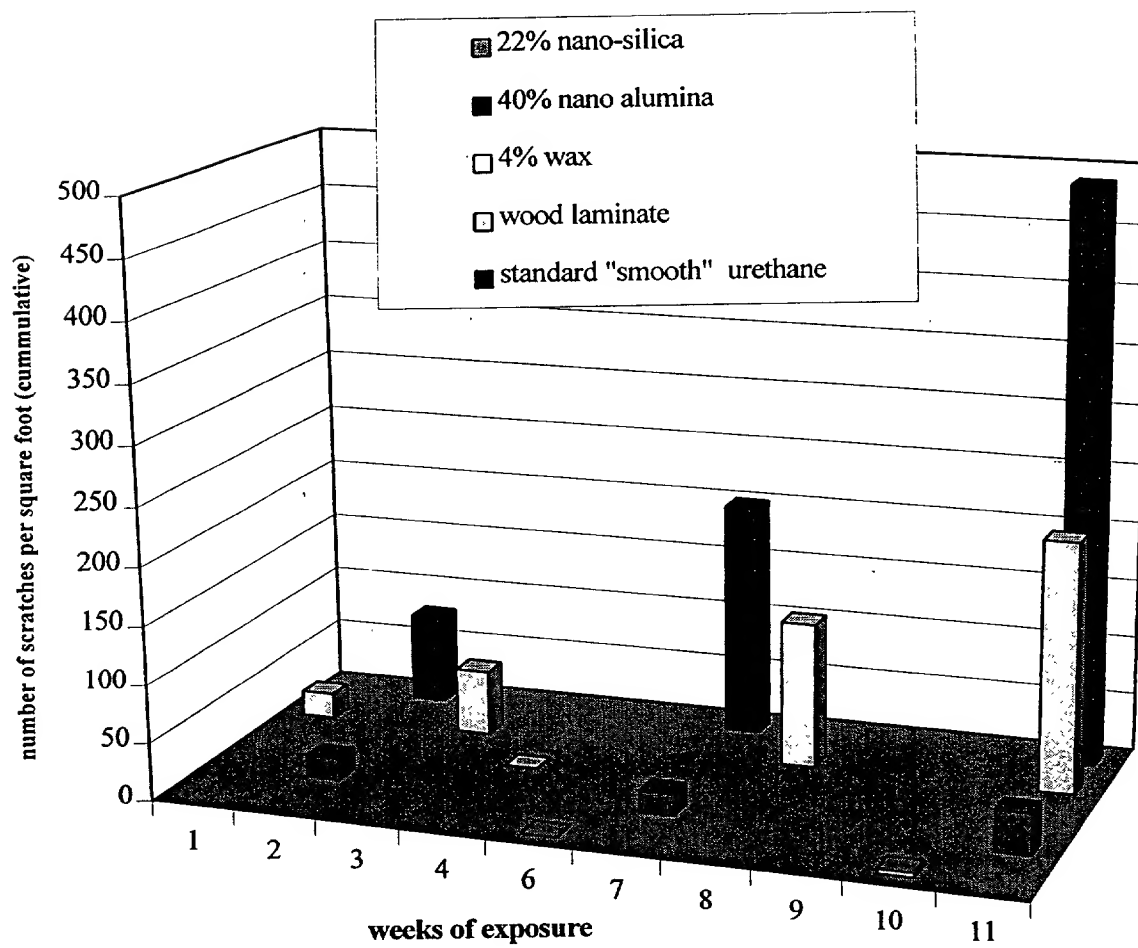


FIG. 33